Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	05/01/2019 05/01/2019	Alberto De Leon

LM Start		Rating **	Α	Issue No.		14			
LM End		Issue Type +	Ma	Location *		N/A			
Category	GPS La	atituc	de/Longitude						
Category				Start		End			
Item	s & Maintena	nce		0		0			
пеш	Manuals				0		0		
DWR ID	DWR ID DWR_RD2095_01_s _ 2013_14								
		Comn	nent Cod	de					
		Inspecto	or Comm	nent					
The O&M Manual is available at the office.									

No Photos

LM Start		Rating **	Α	Issue No.		17	
LM End		Issue Type +	Ma	Location *		N/A	
Category	Earthen L	evee		GPS La	atitud	le/Longitude	
Calegory				Start		End	
Item	Flood Pre	paredness &	Training		0		0
пеш	item						0
DWR ID	DWR_RD2	095_01_s _ 201	3_17				
		Comn	nent Cod	le			
		Inspecto	or Comm	ent			

The LMA has current flood fight training and a flood fighting plan.

No Photos

LM Ctt		Rating **	Α	Issue No.		19		
LM Start		rating	A	13306 110.				
LM End		Issue Type +	Ma	Location *		N/A		
Category Earthen Levee			GPS La	atitud	le/Longitude			
Category				Start		End		
Item		cy Supplies &			0		0	
пеш	Equipmer	nt			٥		0	
DWR ID	DWR_RD2	095_01_s _ 201	3_19					
		Comn	nent Cod	le				
	Inspector Comment							
Flood fight	ing supplie	es are availab	le on-site	at the war	eho	use.		

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS: Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	05/01/2019 05/01/2019	Alberto De Leon

LM Start	0.10	Rating **	M	Issue No.	5			
LM End	0.10	Issue Type +	Ma	Location *	LS			
Category	evee	GPS Latitude/Longitude						
Calegory	Start End							
Item	Erosion /	Bank Caving		37.7703°	l1°	37.770311 °		
пеш	-121.325884 ° -121.325884							
DWR ID DWR_RD2095_01_s _ 2019_5								
	Comment Code							

E2: Schedule repair of erosion site prior to the next inspection.

Inspector Comment

Repair erosion caused by motorcycle traffic.

Photo 1 of 1: SP_2019_RD2095_322_5_20190514_00015.jpg



View of landside slope with an erosion area caused by motorcycle riders creating ruts and jumps. (Spring 2019)

LM Start	0.15	Rating **	A/W	Issue No.		10	
LM End	0.15	Issue Type +	Ма	Location *		WS	
Category	Earthen L	evee		GPS Latitude/Longitude			
Calegory				Start		End	
Item	Slope Sta	bility		37.7699	97°	37.769997°	
item				-121.3250	55 °	-121.325055 °	
DWR ID	DWR_RD2095_01_f _ 2015_10						

Comment Code

S3: Repair the levee slope damaged by vehicle traffic and prevent access where possible.

Inspector Comment

LMA is actively controlling access. The slope appears to be stable and should be monitored for possible erosion.

Photo 1 of 1: SP_2019_RD2095_322_10_20190313_00001.jpg



View of the vehicle tracks on the waterside levee slope.

LM Start	0.79	Rating **	M	Issue No.		6	
LM End	0.79	Issue Type +	Ma	Location *	WS		
Category	Earthen L	evee		GPS La	titud	e/Longitude	
Category				Start		End	
Item	Trim / Thi	n Trees		37.7626	79°	37.762679	0
пеш				-121.3182	73 °	-121.318273	0
DWR ID	DWR_RD2	095_01_f _ 201	8_6				

Comment Code

T1 : Trim trees to at least five feet above ground level.

Inspector Comment

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiancy
WS : Water Side	M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Paradise Cut	Left	1.45	05/01/2019 05/01/2019	Alberto De Leon

LM Start	0.84	Rating **	М	Issue No.		7			
LM End	0.84	Issue Type +	Ма	Location *		WS			
Category	Earthen Levee			GPS La	atitud	e/Longitude			
Calegory				Start		End			
Item	Trim / Thi	n Trees	37.7620	13°	37.762013 °				
пеш				-121.3180	00°	-121.318000 °			
DWR ID	DWR_RD2	095_01_s _ 201	9_7						
		Comn	nent Coc	le					
T1: Trim t	rees to at l	east five feet	above g	round level.					
		Inspecto	or Comm	ent					

No Photos

Rating ** Issue No. LM Start 0.89 M Issue Type + 1.45 Ma Location * LS LM End Earthen Levee GPS Latitude/Longitude Category End Vegetation 37.761315° 37.759237° Item -121.317743 ° -121.308359 DWR ID DWR RD2095 01 s 2019 8 Comment Code

No Photos

V2 : Remove the wild growth other than native grasses from the levee slopes.

Inspector Comment

Annual vegetation is controlled with a spray program.

N: Not Inspected/Rated C: Corrected A/W: Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence
En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	05/01/2019 05/01/2019	Alberto De Leon

LM Start	0.00	Rating **	Α	Issue No.		9
LM End	3.41	Issue Type +	Ма	Location *		LS
Category	Earthen L	evee		GPS La	atitud	e/Longitude
Calegory				Start		End
Item	Vegetatio	n		37.7592	46°	37.717755°
пеш				-121.3082	96°	-121.304852 °
DWR ID	DWR_RD2	095_02_s _ 201	9_9			
		Comn	nent Cod	le		
V1 : Contro easements		rass and wee	ds on th	e levee slo	pes	and
		Inspecto	or Comm	nent		
Annual veg	getation is	well maintiane	ed.			



Typical view of vegetation on landside slope. (Spring 2019)

LM Start	0.03	Rating **	М	Issue No.		8
LM End	0.03	Issue Type +	Ma	Location *		WS
Category	Earthen L	.evee		GPS Latitude/Longitude		
Calegory				Start End		
Item	Trim / Thi	n Trees		37.75902	21 °	37.759021 °
пеш				-121.30794	45 °	-121.307945 °
DWR ID	DWR_RD2	095_02_s _ 201	9_8			
Comment Code						
T1 : Trim t	rees to at	least five feet	above g	round level.		

ŭ

Inspector Comment

No Photos

LM Start	0.60	Rating **	М	Issue No.		6	
LM End	0.60	Issue Type +	Ma	Location *		LS	
Category	Earthen L	.evee		atitud	le/Longitude		
Calegory				Start		End	
Item	Vegetatio	n		37.751668°		37.751668	0
пеш				-121.3043	02°	-121.304302	0
DWR ID	DWR_RD2	095_02_s _ 201	2_6				
		Comn	nent Cod	de			
V4 . Eldor		blooking vioik	ilita and	flood fiebt		hilit.	Т

V4 : Elderberries are blocking visibility and flood fight capability.

Inspector Comment

There is a small shrub at the edge of the ditch.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	05/01/2019 05/01/2019	Alberto De Leon

LM Start	0.97	Rating **	A/W	Issue No.		941	
LM End	0.97	Issue Type +	Ма	Location *		WS	
Category	Earthen Levee				GPS Latitude/Longitude		
Calegory				Start		End	
Item	Vegetatio	n		37.74970)6°	37.749706°	
пеш				-121.29923	37 °	-121.299237 °	
DWR ID	DWR_RD2	095_02_s _ 201	2_941				

37.749706 ° 37.749706 °

Comment Code

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

There is a dense bush within 20' of the crown on the waterside slope.

LM Sta	rt	0.98	Rating **	A/W	Issue No.		940	
LM End	d	0.98	Issue Type +	Ma	Location *	WS		
Catego	n,	Earthen L	evee		GPS Latitude/Longitude			
Calegor	ıy				Start End		End	
Item		Vegetatio	n		37.74962	29°	37.749629	0
пеш					-121.29904	40 °	-121.299040	0
DWR II	D	DWR_RD2	095_02_s _ 201	2_940				

Comment Code

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

No Photos

No Photos

LM Start	1.33	Rating **	M	Issue No.		10		
LM End	1.33	Issue Type +	Ма	Location *	Location *			
Category	Earthen Levee				GPS Latitude/Longitude			
Calegory				Start		End		
Item	Cracking			37.74490)4°	37.744904	•	
пеш				-121.2976	79 °	-121.297679	•	
DWR ID	DWR_RD2	095_02_f _ 201	8_10					

Comment Code

CR1: Monitor and have inspected by geotechnical engineer.

Inspector Comment

There is a large crack on the waterside shoulder at a previous erosion repair site. Recommend getting a geotechnical engineer to evaluate the crack.

Photo 1 of 1: SP_2019_RD2095_323_10_20190313_00006.jpg



View of cracking on waterside shoulder. Fall 2018.

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	05/01/2019 05/01/2019	Alberto De Leon

LM Start	1.50	Rating **	A/W	Issue No.	12	
LM End	1.50	Issue Type +	Ma	Location *	WS	
Category	Earthen L	evee		GPS Latitude/Longitude		
Calegory				Start End		
Item	Vegetatio	n		37.74282	8°	37.742828 °
пеш				-121.297532 ° -121.29753		
DWR ID	DWR_RD2	095_02_s _ 201	2_12			
		Comn	nent Cod	le .		

V4: Elderberries are blocking visibility and flood fight capability.

Inspector	Commont
inspecioi	Commeni

LM Start	1.74	Rating **	A/W	Issue No.		1	
LM End	1.77	Issue Type +	Ma	Location *	WS		
Category	GPS Latitude/Longitude						
Calegory		Start		End			
Item	DWR Ero	sion Survey		37.74019	96°	37.740196	0
пеш				-121.2976	62 °	-121.297662	0
DWR ID	RD2095U0	2RM60.62					

Comment Code

Inspector Comment

10/04/2017: The erosion has further expanded toward the levee toe. The berm width has shortened to approximately 14 feet. The erosion also has further lengthened upstream. Vegetation has grown denser at the site.

07/20/2016: The erosion extended toward the levee toe. The berm width was reduced by approximately five (5) feet.

08/04/2015: No significant change observed.

07/02/2014: No significant change observed.

08/28/2013: No significant change observed.

09/13/2012: The site has been visited by land survey. The vegetation on the site shows the erosion has not developed significantly from the last survey.

The site was not visited by boat survey due to the limitation of navigable waterway.

08/23/2011: No significant change observed.

9/22/2010: No significant change observed. There is moderate vegetation growth on the berm. Despite the erosion occurring on the berm, corrective action should be taken before the issue becomes

9/29/2009: Site is immediately downstream of a section of existing rip rap; there is a 20-foot berm remaining; berm will continue to erode unless erosion is mitigated; Site# is the same as RM62.6, LM1.87; recommended for annual assessment, per CES Evaluation 2008 Report 2006: Visited 10/20/06 [2017 Site ID:RD2095U02RM60.62]

Photo 1 of 4: SP_2019_RD2095_323_1_20190313_00001.jpg



Looking at the erosion from downstream.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	05/01/2019 05/01/2019	Alberto De Leon

LM Start	1.74	Rating **	A/W	Issue No.		1 (cont)	
LM End	1.77	Issue Type +	Ma	Location *		WS	
Supplemental Supplemental				GPS Latitude/Longitude			
Calegory	Category					End	
Item	DWR Erosion Survey			37.74019	96°	37.740196°	
пеш				-121.29766	32 °	-121.297662 °	
DWR ID	RD2095U0	2RM60.62				·	

Comment Code

Inspector Comment

10/04/2017: The erosion has further expanded toward the levee toe. The berm width has shortened to approximately 14 feet. The erosion also has further lengthened upstream. Vegetation has grown denser at the site.

07/20/2016: The erosion extended toward the levee toe. The berm width was reduced by approximately five (5) feet.

08/04/2015: No significant change observed.

07/02/2014: No significant change observed.

08/28/2013: No significant change observed.

09/13/2012: The site has been visited by land survey. The vegetation on the site shows the erosion has not developed significantly from the last survey.

The site was not visited by boat survey due to the limitation of navigable waterway.

08/23/2011: No significant change observed.

9/22/2010: No significant change observed. There is moderate vegetation growth on the berm. Despite the erosion occurring on the berm, corrective action should be taken before the issue becomes severe.

9/29/2009: Site is immediately downstream of a section of existing rip rap; there is a 20-foot berm remaining; berm will continue to erode unless erosion is mitigated; Site# is the same as RM62.6, LM1.87; recommended for annual assessment, per CES Evaluation 2008 Report 2006: Visited 10/20/06 [2017 Site ID:RD2095U02RM60.62]

LM Start	1.74	Rating **	A/W	Issue No.	1 (cont)
LM End	1.77	Issue Type +	Ma	Location *	WS

Photo 2 of 4: SP_2019_RD2095_323_1_20190313_00002.jpg



Looking at the erosion from upstream.

Photo 3 of 4: SP_2019_RD2095_323_1_20190313_00003.jpg



Close view of the erosion.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	05/01/2019 05/01/2019	Alberto De Leon

LM Start	1.74	Rating **	A/W	Issue No.		1 (cont)	
LM End	1.77	Issue Type +	Ма	Location *		WS	
Supplemental				GPS Latitude/Longitude			
Calegory	Calegory			Start		End	
Item	DWR Ero	sion Survey		37.74019	6°	37.740196 °	
пеш	item			-121.29766	2°	-121.297662 °	
DWR ID	RD2095U0	2RM60.62					

Inspector Comment

Comment Code

10/04/2017: The erosion has further expanded toward the levee toe. The berm width has shortened to approximately 14 feet. The erosion also has further lengthened upstream. Vegetation has grown denser at the site.

07/20/2016: The erosion extended toward the levee toe. The berm width was reduced by approximately five (5) feet.

08/04/2015: No significant change observed.

07/02/2014: No significant change observed.

08/28/2013: No significant change observed.

09/13/2012: The site has been visited by land survey. The vegetation on the site shows the erosion has not developed significantly from the last survey.

The site was not visited by boat survey due to the limitation of navigable waterway.

08/23/2011: No significant change observed.

9/22/2010: No significant change observed. There is moderate vegetation growth on the berm. Despite the erosion occurring on the berm, corrective action should be taken before the issue becomes severe

9/29/2009: Site is immediately downstream of a section of existing rip rap; there is a 20-foot berm remaining; berm will continue to erode unless erosion is mitigated; Site# is the same as RM62.6, LM1.87; recommended for annual assessment, per CES Evaluation 2008 Report 2006: Visited 10/20/06 [2017 Site ID:RD2095U02RM60.62]

Photo 4 of 4: SP_2019_RD2095_323_1_20190313_00004.jpg



Close view of the erosion.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	05/01/2019 05/01/2019	Alberto De Leon

LM Start	1.75	Rating **	A/W	Issue No.		15	
LM End	1.84	Issue Type +	Ма	Location *			
Supplemental				GPS Latitude/Longitude			
Calegory			Start		End		
Itom	2017 Stor	m Damage		37.740196°		37.738880 °	
Item				-121.297662 °		-121.298260 °	
DWR ID DWR_RD2095_02_f _ 2017_15							
Comment Code							

Inspector Comment

Levee Evaluation Comments

Description:Active waterside erosion on San Joaquin River near the end of Wright Road in Tracy, CA. Total length of erosion extends 615. Erosion has extended 15 feet towards levee toe this flood season. Pleasee see attached map and photots. As the high water level receds from the winter storm, we can see more damage to this stie. Erosion is active.

Site ID No:469

Site Designation:LMA-296

Repair Type: Erosion

Rating:Serious

Field Date:7/26/2017

Notes: This is an active erosion site. Zero vegetation within the eroded portion. It may not be quite in the prism now, but lost about 20 ft (horizontally) of bank last year. Saw eddies in the water here also.

LM Start	1.75	Rating **	A/W	Issue No.	15 (cont)
LM End	1.84	Issue Type +	Ma	Location *	



Photo 2 of 3: LEVAL_SP_2019_469_2349.jpg



N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence
En : Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	05/01/2019 05/01/2019	Alberto De Leon

LM Start	1.75	Rating **	A/W	Issue No.	15 (cont)			
LM End	1.84	Issue Type +	Ma	Location *				
Supplemental				GPS Latitude/Longitude				
Category			Start		End			
Item	2017 Stor	m Damage		37.74019	96°	37.738880 °		
пеш	em				62 °	-121.298260 °		
DWR ID DWR_RD2095_02_f _ 2017_15								
	Comment Code							

Inspector Comment

Levee Evaluation Comments

Description: Active waterside erosion on San Joaquin River near the end of Wright Road in Tracy, CA. Total length of erosion extends 615. Erosion has extended 15 feet towards levee toe this flood season. Pleasee see attached map and photots. As the high water level receds from the winter storm, we can see more damage to this stie. Erosion is active.

Site ID No:469

Site Designation:LMA-296 Repair Type: Erosion

Rating:Serious

Field Date:7/26/2017

Notes: This is an active erosion site. Zero vegetation within the eroded portion. It may not be quite in the prism now, but lost about 20 ft (horizontally) of bank last year. Saw eddies in the water here also.



LM Start	2.12	Rating **	A/W	Issue No.		20	
LM End	2.12	Issue Type +	Ma	Location *	WS		
Category Earthen Levee			GPS Latitude/Longitude				
Category			Start		End		
Vegetation			37.7348	58°	37.734858 °		
item				-121.297758 °		-121.297758°	
DWR ID DWR_RD2095_02_s _ 2012_20							
Common and Condo							

Comment Code

V4: Elderberries are blocking visibility and flood fight capability.

Inspector Comment

* Location	** Rating		+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side	A : Acceptable M : Minimally Acceptable	N : Not Inspected/Rated C : Corrected	Ma : Maintenance Deficiancy Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En: Enforcement

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	05/01/2019 05/01/2019	Alberto De Leon

LM Start	2.38	Rating **	A/W	Issue No.	945		
LM End	2.38	Issue Type +	Ма	Location *			
Category	Supplemental			GPS Latitude/Longitude			
Calegory			Start		End		
ltem DWR UCIP LMA Responsibility				37.7313 ⁻	13°	37.731313°	
				-121.2982	98 °	-121.298298°	
DWR ID	21644						
Comment Code							

Inspector Comment

FS_ID:19871 DS_ID:21644 EP_NO: N/A

Repair Type: No Action Needed Crossing Status: Found UCIP Comments:

FIELD_STRUCT_DESC: 8-inch steel drainage pipe through the levee, 3 feet below the crown. Pump in drainage ditch on the landside (LS). Vent pipe at the waterside (WS) toe. 1.5-inch galvanized iron electrical conduit through the levee at the same location. Service pole with a switch box and meter on the LS. [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 11, 1968, (HLM 2.41)]. FS Date: 9/10/2013

LM Start	2.38	Rating **	A/W	Issue No.	945 (cont)
LM End	2.38	Issue Type +	Ма	Location *	



Pump on metal pier off LS toe.

Photo 2 of 2: UCIP_SP_2019_19871_33777.jpg



Vent standpipe on WS toe.

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

Reclamation District No. 2095 Paradise Cut

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Left	3.41	05/01/2019 05/01/2019	Alberto De Leon

	_							
LM Start	2.74	Rating **	М	Issue No.		11		
LM End	2.74	Issue Type +	Ma	Location *	LS			
Category	Earthen L		GPS Latitude/Longitude					
Calegory			Start		End			
Item	Trim / Thi		37.726205°		37.726205 °			
пеш				-121.299720°		-121.299720 °		
DWR ID	DWR_RD2095_02_s _ 2019_11							
Comment Code								
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.								
Inspector Comment								